

**ABSTRACT OF THE DISCLOSURE**

A data encipher/decipher system for a portable rack of a computer comprises a storage device, a circuit board, a encipher/decipher device, an unlock receptacle and a unlock key. The storage device is disposed in and fixedly attached to the portable rack. The circuit board is disposed at the rear side of the portable rack and is attached with a signal connector at the back thereof to separate a signal into a delay connector with a standard IDE interface and a power source plug. The circuit board provides at least two connecting wires extending outward the portable rack and has a signal line. The encipher/decipher device is a control IC with a specific built in logic operation symbol or with an equation operation device and the control IC is mounted on the circuit board to connect with the signal line. The unlock receptacle is disposed at an outer side of the portable rack to connect with the signal line. The unlock key with an inner unlock chip provides a unlock plug at an end thereof to be inserted into the unlock receptacle.

Once the delay connector and the power source plug are connected to the storage device to form a status of signal on and power on, the control IC performs a procedure for identifying the password of the unlock key as soon as the unlock key is inserted into the unlock receptacle. In case of the password of the unlock key conforming the password of the control IC, the user can read data in the storage device or write data into the storage device under a condition of being deciphered or enciphered immediately.

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